



**CBLVCAT 2.11 New Features
for IBM Mainframe z/OS, VSE & VM/CMS Systems**

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CBLVCAT 2.12 New Features

Documentation Notes

Information in this New Feature List reflects differences between CBLVCAT 2.10 and CBLVCAT 2.12.

The **CBL Products Installation Guide** and **New Features** documents are available in Adobe Acrobat PDF format at CBL web page <http://www.cbl.com/cblvdoc.html>.

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The following generic terms are used throughout this document to indicate all available versions and releases of IBM mainframe operating systems:

MVS - z/OS, OS/390, MVS/ESA, MVS/XA, MVS/SP, OS.

VSE - z/VSE, VSE/ESA, VSE/SP, DOS.

CMS - z/VM, VM/ESA, VM/XA, VM/SP.

Section 01: Important Changes

CBL Interactive Environment for MVS, VSE and CMS

CBL software products, SELCOPY and CBLVCAT, are now packaged with an interactive environment (CBLi) that includes additional productivity tools and is a vehicle for interactive execution of each product. (See [SELCOPY Interactive Debugger and Development Environment](#) in **Section 2: New Facilities**.)

Use of CBLi is included, at no additional cost, within the SELCOPY and CBLVCAT licence agreements.

CBLi was first made GA at release 1.10 on 2004/12/06, and made available to all SELCOPY and CBLVCAT users to download as a separately installable product bundle from the [CBL web site](#).

CBLi is now integral to the SELCOPY and CBLVCAT products and is installed automatically as part of the latest SELCOPY and CBLVCAT install procedures.

OpSys	Environment	Startup Command
MVS	TSO/E	Enter the command CBLi at the READY prompt.
	ISPF	Enter TSO CBLii (double "i") on the ISPF command line.
	VTAM	Enter LOGON APPLID(CBLiVTAM) on a VTAM USS screen.
VSE	VTAM	Enter LOGON APPLID(CBLiVTAM) on a VTAM USS screen.
VM	CMS	Enter the command CBLi on the CMS command line.

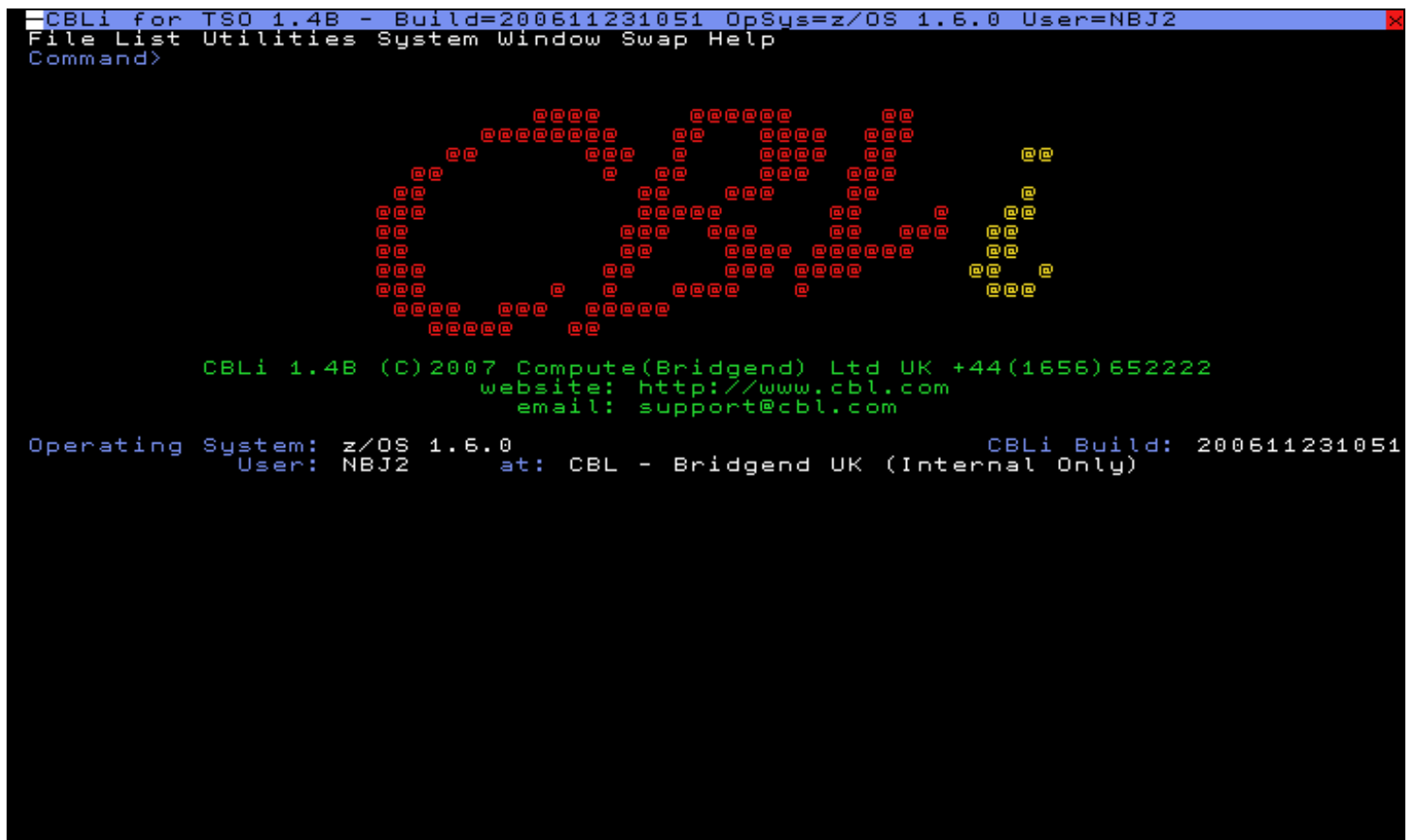


Figure 1. CBL Interactive Environment Main Window.

CBL Interactive Environment Features

CBLi is a productivity aid designed to provide users with a powerful, intuitive, multi-windowed environment within the 3270 terminal display, in which to launch projects and manage files.

Detailed information on CBLi window operation and supported command reference is available in the [CBLi User Manual](#) and accompanying [CBLe Text Editor Manual](#).

Interactive Environment key features follow.

Windowed Environment within the 3270 Display

This gives the user the ability to display information (edited views, lists, etc.) in any number of easily navigable windows concurrently. A significant improvement for those MVS users who are only able to swap between two, full-screen pages.

The windowed environment supports:

- Resizable and moveable windows that may be tiled, cascaded, minimised, maximised, restored and customised.
- Drop-down and pop-up menus.
- Drop-down Window List.
- Hot key in and out of ISPF split screens.

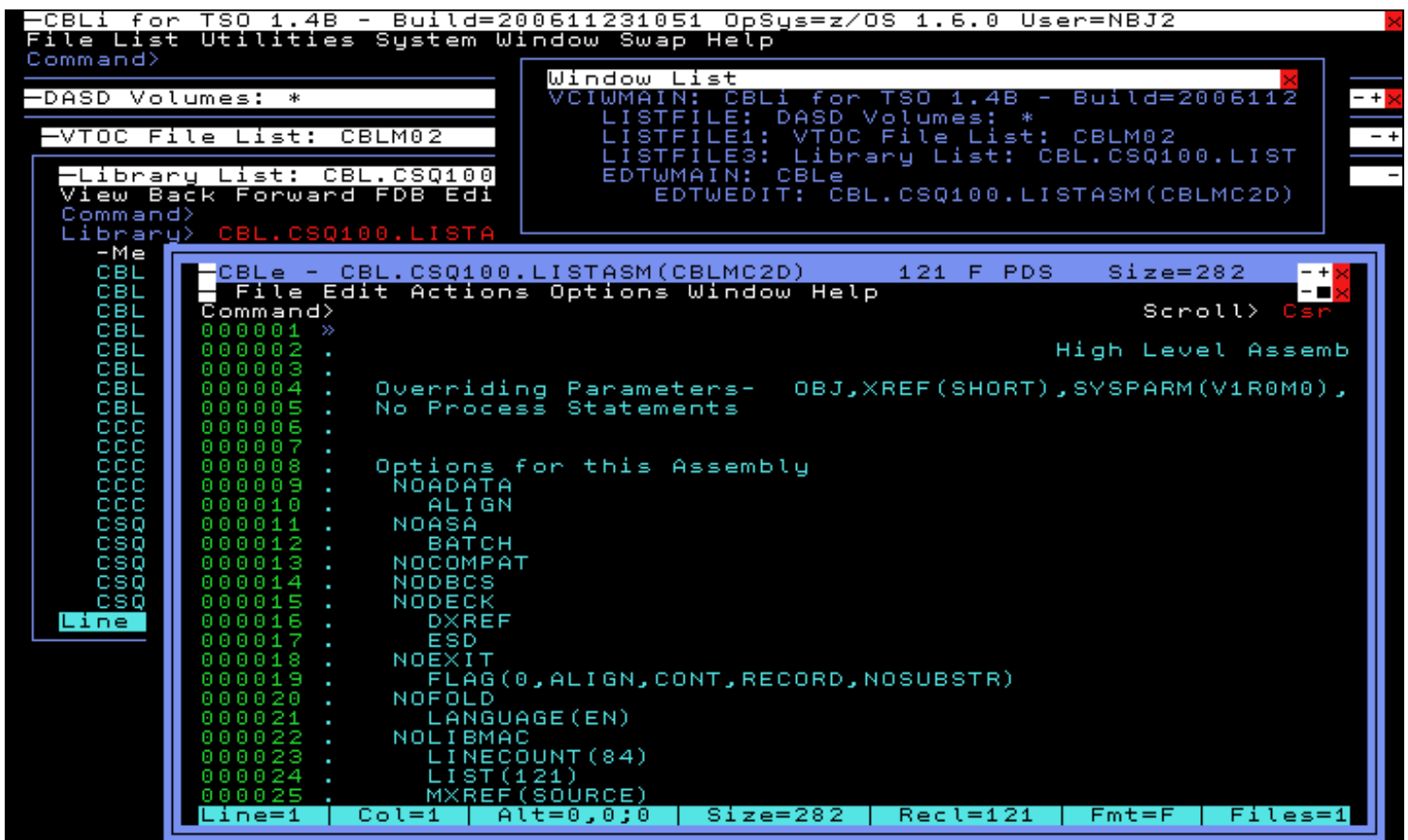


Figure 2. CBL Interactive Environment Window Resize.

Disaster Recovery Aid

Not only does CBLi execute natively in CMS, TSO/E and as an ISPF application, but also as a VTAM application in MVS or VSE.

SELCOPY and CBLi VTAM installed on a DR volume would provide users with a working environment that includes system information windows, a text editor (CBLi) and job submission capabilities without the need for a MVS TSO or VSE ICCF.

Interactive SELCOPY execution

Allows the user to debug SELCOPY job streams by stepping through control statements, setting break points and displaying changes to workarea storage, @ pointers, etc.

```

-CBLi for TSO 1.48 - Build=200701161527 OpSys=z/OS 1.6.0 User=NBJ
File List Utilities System Window Swap Help
-SELCOPY
File View Go StepOver StepInto ReRun Window Help ? Sv ToF BoF Pfx < >

-Work Area

-SYSPRINT: NBJ.SELCOPY.SSDEMO01.SYSPRINT 133 V SEQ Size=+
Command> |...+...1...+...2...+...3...+...4...+...5...+...
000365 1 1 20 AMEQU
000366 1 1 16
000367 2 2 16 ** AMEQU EXEC Q *** L=01
000368 3 3 16 * Created by AMEQU CRE EXEC using the
000369 4 4 16 * *** DO NOT CHANGE
000370 5 5 16 *
000371 * * * End of File * * *

-SYSIN: CBL
Command> |...
000063 rd
000064 if
000065
000066
000067 if
000068 then print from pdsin * PRINT data records.
000069 * then write outdd from pdsin * Write data records to
000070 * <alloc f(outdd) reuse shr da('cbl.ssc.ctl(outdd)') !la outdd
000071
000072 if dir pds2
000073 then add 1 to totl at tot type=b * +1 to total field.
000074
000075 then if pos marr, @arr+marr-1 = 8 at pdsin step=marr * Scan
000076 then add 1 to matl at mat type=b * +1 to match field.
000077 then space 2 * Space 2 lines.
000078 then print from pdsin len 8 * Print matching member
000079
000080 else flag eom * Do not read data reco
000081 then log from pdsin len 8 * Log mismatching membe
F1=StepOver F2=StepInto F4=Point-and-Shoot Options F13=Go F14=BreakP
Line=365 Col=1 Alt=0,0;100 Size=370 Recl=133 Fmt=V

```

Figure 3. SELCOPY Interactive Window.

Interactive CBLVCAT execution

Allows the user to generate dynamic reports of VTOC/Catalog contents and IDCAMS tuning recommendations for VSAM data sets. This is discussed in more detail in [Section 2: New Facilities](#) below.

CBLLe Text Editor

A function rich, user configurable text editor including support for:

- Interfaces for both **ISPF-Edit (PDF)** and **KEDIT/XEDIT** compatibility.
- MDI (Multiple Document Interface) Edit display windows.
- Command Line Interface (CLI) on all edit operations. (cf. ISPF Primary commands)
- Configurable PFKeys and Edit environment.
- Prefix area command support. (cf. ISPF Line commands)
- Text blocking as source for copy, move, delete, overlay, etc.
- Simple VSAM data set editing.
- REXX Edit Macro support, including EXTRACT feature to automatically create REXX stem variables.
- Automatic translation of System Symbols, environment and user-defined variables.
- ALLOC command (for when TSO is not available.)
- SUBMIT job streams to batch.
- TASK command to start a program as a sub-task.

CBLLe also includes the CMDTEXT function, a unique **point-and-shoot** facility enabling execution of any system (CMS/TSO/ISPF), CBLi or CBLLe text edit command stored as a text string in any editable file. This feature has brought about the use of **CMX** files (files containing related command strings and comment text) as "command-centres" for specific projects and tasks.

The screenshot displays the CBLLe Text Editor interface with the following components:

- Top Bar:** -CBLi for TSO 1.4B - Build=200611231319 OpSys=z/OS 1.6.0 User=NBJ
- Menu Bar:** File List Utilities System Window Swap Help
- Toolbar:** -CBLLe File Edit Actions Options Window Help ? SV ToF BoF wS wR Pfx < >
- Window List:**
 - CBL.CMX(NBJ) 252 V PDS Size=878 Alt=0,0;1
 - CBL.CMX(ISPF) 252 V PDS Size=349 Alt=1,1;3
 - NBJ.TEST.KSDS 128 V KSDS(R) Size=6 Alt=0,0;0
- Main Edit Area:**

```

Command>
|...+...1...+...2...+...3...+...4...+...5...+...6...
000001 AAAAAAAAAA Record 1 length 80
000002 AAAAAAAB Record 2 length 40
000003 AAAAAAAC Record 3 length 66
000004 AAAAAAAD Record 4 length 64
000005 AAAAAAAE Record 5 leng
000006 AAAAAAAF Record 6 leng
000007 * * * End of File * * *
  
```
- Hex Edit Overlay (NBj.TEST.KSDS):**

```

RecNo> 2 Length> 40
000000 C1C1C1C1 C1C1C1C2 AAAAAAAB
000008 4040D985 83969984 Record
000010 40F24093 859587A3 2 length
000018 8840F4F0 40606060 h 40 ---
000020 60606060 6060606E ----->
000028 00000000 00000000
000030 00000000 00000000
000038 00000000 00000000
  
```
- Bottom Panel:**

```

000046 <c can XXX all !cance
000047
000048
000049
.c
000051 .c *** Change/CHG - (CBLLe simil: Change) ***
000052 <synex bounds 11 20 !c xyz ZZZ all
000053 <synex bounds 1 9999 !c xyz ZZZ .c .ce all
000054 < chang xyz ZZZ .c .ce first
000055 < chg xyz ZZZ .c .ce last
000056 < c xyz ZZZ .c .ce next
==CHG> xyz ZZZ
==CHG> xyzd ZZZd
==CHG> xyz zZZZ
000060 < c xyz ZZZ .c .ce prev
  
```
- Status Bar:** Line=1 Col=1 Alt=0,0;0 Size=6 Recl=128 Fmt=V Files=3 Views=3

Figure 4. CBLLe Text Editor.

List Windows

Display configurable rows of information for various list types that include:

- DASD Volumes.
- VTOC contents.
- Cataloged Datasets.
- Library Members.
- Enqueued Resources.
- Allocated Datasets.

```

-CBLI for TSO 1.4B - Build=200611231642 OpSys=z/OS 1.6.0 User=NBJ
File List Utilities System Window Swap Help
Command>

-Dataset List: NBJ***
View Back Forward FDB Edit Help
Command>
Entry> NBJ***
Catalog> USERCAT.CBLCAT
Types>
-----Entry-----
NBJ.CBL.INST.SELCOPY.NAM
NBJ.CBL.INST.SRC
NBJ.CBL.INST.TEST03.PACK
NBJ.CBL.INST.TXT
NBJ.CBL.TEST.INSTDATA.PACK

-DASD Volumes: CBL*
View Back Forward FDB Edit Help
Command>
Volume> CBL*
UNIT -VOL-- FREECYL FREETRK FREEXTN FRE
0AA0 CBLMCT 2174 32625 5
0AA1 CBLM01 401 6069 15
0AA2 CBLM02 272 4143 15
0AA3 CBLM03 222 3376 12
0AA4 CBLM04 490 7395 11
0AA5 CBLM05 443 6668 8
0AA6 CBLM06 458 6894 7

-VTOC File List: CBLM06
View Back Forward FDB Edit Help
Command>
Volume> CBLM06
Filter> *.*
-Vol-- -----Dsn----- Org RecFm Lrecl Blksz Alu
CBLM06 CBL.CBLI.F5 PO VB 1024 32760 C
CBLM06 CBL.CBLI.HELP.HTML PO VB 255 32760 C

-Library List: CBL.CBLI110.LSA
View Back Forward FDB Edit Help
Command>
Library> CBL.CBLI110.
-Member- Alias VV M
APEEINIT N 1
APEETERM N 1
CBLAVARL N
CBLAVCII N
CBLDLL00 N
CBLVIMSS N
CBLVIMST N
CBLVSQL0 N
CBLVSVC N
Line 1 of 294 Col 1

-Allocated Datasets
View Back Forward FDB Edit Help
Command> where ddname>>D
DDName>
-DDName- -CSeq- -----DsN-----
DDBLSR 1 SYS06331.T095729.RA000.NBJ.R0102857
DDBLSRX 1 CBL.KSDS
DITPLIB 1 DIT130.SDITPLIB
DSQDEBUG 1 NBJ.NBJ.TSU07017.D0000102.?
DSQEDIT 1 SYS06331.T095729.RA000.NBJ.R0102856
DSQPRINT 1 NBJ.NBJ.TSU07017.D0000101.?
DSQSPILL 1 SYS06331.T095729.RA000.NBJ.SPILL.H01
Line 1 of 8 Col 1 of 108 Views 3 select * where
  
```

Figure 5. List Windows.

All list windows support the following:

- Point-and-shoot on column headers to sort column data.
- SQL style syntax for select, sort and filter.
- Prefix commands to copy, rename, delete, generate IDCAMS LISTCAT output, etc. as appropriate.

List windows provide a simple method of system navigation allowing the user to intuitively drill-down through lists of DASDs, VTOCs, Datasets, Libraries and finally, edit or browse a dataset or library member.

List windows are accessible via the **List** main menu item and directly via parameter driven command line interface commands. e.g.

LD	List Datasets.
LL	List Library Members.
LA	List Allocated Datasets.

System Information List Windows (MVS Systems only)

The ability to display System Information is restricted by RACF profiles. Supported System List window types are:

- LPA Modules.
- Link Listed Libraries.
- APF Authorised Libraries.
- Task List.
- Private, CSA and SQA Storage Map.
- Loaded Programs.

The screenshot displays the CBLI for TSO 1.4B interface with the following windows and data:

Operating System

```

Operating system: z/OS
Operating system release: 1.6.0
VM guest machine id:
CPU serial number: 0A0000
  
```

-LPA Modules

Address	-Chain--	--RBP--	Dyn	--Name--	--EPA--
00C938E0	00000000	00000000	N		000000
00C93C30	00000000	00000000	N		000000
00C93C08	00000000	00000000	N		000000
00F4F428	00FA3910	00000000	N		000000
00C93C80	00000000	00000000	N		000000
00C93C58	00000000	00000000	N		000000
00C93BB8	00000000	0			000000
00FA0440	00F50080	0			0
00F92050	00FA3940	0			0
00FA3					
00FA3					
00FA3					
00FA3					

-Link List

```

View Back Forward FDB Edit Hel
Command>

-Seq- -----DsN-
1 SYS1.LINKLIB
2 SYS1.MIGLIB
3 SYS1.CSSLIB
4 USER.LINKLIB
5 SYS1.SIEALNKE
6 SYS1.SERBLINK
Line 1 of 53 Col 1 of 50 V
  
```

-Task List

```

View Back Forward FDB Edit Help
Command>

Seq Lvl --TCB-- --Pgm--
1 0 008FDF30 IEAVAR00
2 1 008FD230 IEFSD060
3 2 008FD098 IKJEFT01
4 3 008DFD40 IKJEFT02
5 4 008DFBA8 IKJEFT09
6 5 008DFA10 ISPMMAIN
7 6 008DF878 ISPTASK
8 7 008DF548 DB
Line 1 of 11 Col 1 of 25 View
  
```

-APF List

```

View Back F
Command>

DsNL -----
12 SYS1.L
11 SYS1.S
11 SYS1.M
13 SYS1.S
11 SYS1.C
15 IGY330
15 EQA510
15 EQA510.SEQAAUTH
12 GIM.SGIMLMD0
Line 1 of 61 Col 1 of 60 Views 1 select *
  
```

-Vol-- SMS

```

Z6RES1 N
Z6RES1 N
Z6RES1 N
Z6RES1 N
Z6RES1 N
Z6RES2 N
Z6RES2 N
Z6RES2 N
Z6RES2 N
  
```

Figure 6. System List Windows.

Dynamic SQL Interface to DB2 (MVS Systems only)

The DB2 Dynamic SQL window is used to submit SQL commands to a DB2 database and display the resultant messages and table views.

The screenshot shows a terminal window titled "Dynamic SQL: DB8G". The menu bar includes "View", "Back", "Forward", "FDB", "Edit", and "Help". The command prompt shows the following sequence of commands:

```

Command>
DB2 Subsystem> DB8G
Plan> CBLPLAN0
SQL Statement> SELECT * FROM SYSIBM.SYSCOLUMNS WHERE COLTYPE='CHAR'
                ORDER BY NAME
                >
                >
  
```

The results are displayed in a table with the following columns: NAME, TBNAME, TBCREATOR, COLNO, COLTYPE, LENGTH, and SC. The data is sorted by NAME.

NAME	TBNAME	TBCREATOR	COLNO	COLTYPE	LENGTH	SC
ACCESSPATH	SYSSTMT	SYSIBM	11	CHAR	1	1
ACCESSPATH	DGO_SYSPACKSTMT	IBMUSER	14	CHAR	1	1
ACCESSPATH	DGO_SYSSMT	IBMUSER	11	CHAR	1	1
ACCESSPATH	SYSPACKSTMT	SYSIBM	14	CHAR	1	1
ACCESSTYPE	PLAN_TABLE	IBMUSER	10	CHAR	2	2
ACCESSTYPE	PLAN_TABLE	DSN8810	10	CHAR	2	2
ACCESSTYPE	PLAN_TABLE	DPACK	10	CHAR	2	2
ACCTNO	SUPPLIER	Q	1	CHAR	5	5
ACQUIRE	DGO_SYSPPLAN	IBMUSER	12	CHAR	1	1
ACQUIRE	SYSPLAN	SYSIBM	12	CHAR	1	1
ACQUIRE	DGO_DGOPLAN	IBMUSER	13	CHAR	1	1
ACTION	TOPTVAL	DSN8810	2	CHAR	1	1
ACTION	VOPTVAL	DSN8810	2	CHAR	1	1
ACTION_IND	ADBCHK	IBMUSER	8	CHAR	1	1
ACTKWD	VACT	DSN8810	2	CHAR	6	6
ACTKWD	EACT	DSN8810	2	CHAR	6	6
ACTKWD	ACT	DSN8810	2	CHAR	6	6
ADMRDEPT	VDEPMG1	DSN8810	7	CHAR	3	3
ADMRDEPT	VDEPT	DSN8810	4	CHAR	3	3
ADMRDEPT	VHDEPT	DSN8810	4	CHAR	3	3
ADMRDEPT	NEWDEPT	DSN8810	4	CHAR	3	3
ADMRDEPT	EDEPT	DSN8810	4	CHAR	3	3
ADMRDEPT	DEPT	DSN8810	4	CHAR	3	3
ALTERAUTH	SYSTABAUTH	SYSIBM	14	CHAR	1	1
ALTERAUTH	SYSSEQUENCEAUTH	SYSIBM	7	CHAR	1	1

The status bar at the bottom indicates: "Line 1 of 1086 | Col 1 of 486 | Views 1 | select * sort NAME".

Figure 7. SQL DB2 Window.

Dynamic AMS IDCAMS Execution

The AMS IDCAMS window is used to execute any IDCAMS syntax (DELETE, DEFINE, LISTCAT, REPRO, etc.) and then display the resultant SYSPRINT output.

```

-CBLi for TSO 1.4B - Build=200611231642 OpSys=z/OS 1.6.0 User=NBJ
File List Utilities System Window Swap Help
- IDCAMS Command: LISTCAT ENTRY(NBJ.CBLIDEMO.V000A.KSDS) ALL
View Back Forward FDB Edit Help
Command>
AMSCOMMAND> LISTCAT ENTRY(NBJ.CBLIDEMO.V000A.KSDS) ALL
>
Asa -----Line-----
1 IDCAMS SYSTEM SERVICES TIME: 1
0 MARGINS(1 32760)
0 IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
0
LISTCAT ENTRY(NBJ.CBLIDEMO.V000A.KSDS) ALL
0 CLUSTER ----- NBJ.CBLIDEMO.V000A.KSDS
IN-CAT --- USERCAT.CBLCAT
HISTORY
DATASET-OWNER----- (NULL) CREATION-----2006.331
RELEASE-----2 EXPIRATION-----0000.000
SMSDATA
STORAGECLASS ----CBLDFLT MANAGEMENTCLASS--CBLDFLT
DATACLASS ---- (NULL) LBACKUP ---0000.000.0000
BWO STATUS-----00000000 BWO TIMESTAMP---000000 00:00:00.0

- IDCAMS Command: REPRO INDATASET(NBJ.CBLIDEMO.V0000.KSDS)
View Back Forward FDB Edit Help
Command>
AMSCOMMAND> REPRO INDATASET(NBJ.CBLIDEMO.V0000.KSDS)
> OUTDATASET(NBJ.CBLIDEMO.V000A.KSDS)
Asa -----Line-----
1 IDCAMS SYSTEM SERVICES
0 MARGINS(1 32760)
0 IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
0
REPRO INDATASET(NBJ.CBLIDEMO.V0000.KSDS)
0 IDC0005I NUMBER OF RECORDS PROCESSED WAS 500
0 IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
0
0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0

Line 1 of 10 Col 1 of 126 Views 1 select *
  
```

Figure 8. AMS IDCAMS Window.

General Utilities

CBLi contains some general tools that include:

- Multiple File search dialog window.
- Data set allocation and VSAM object definition dialog windows.
- Data set Copy, Rename and Delete dialog windows.
- VSE POWER command execution window.
- REXX calculator.
- Calendar with Julian day of year.

The screenshot displays three overlapping utility windows from the CBLi interface. The top window, titled '-CBLi for TSO 1.4B - Build=200611231642 OpSys=z/OS 1.6.0 User=NBJ', shows the 'File Search' dialog for 'CBL.JCL(*)'. It lists search results with columns for Member, RecNo, HitNo, and Record. The second window, 'Define VSAM KSDS', shows parameters for 'CBL.DEMO.KSDS' including Cluster Name, Model, Catalog, and various attributes like Avg rec len, Max rec len, Buffer size, Key length, Key offset, Type, Reuse, Span, Speed, Writecheck, and Erase. The third window, 'REXX Calculator', provides instructions on using REXX syntax for calculations and conversions, showing an example expression 'd2x(4*6683 % 1024)' with a value of '1A'.

```

-CBLi for TSO 1.4B - Build=200611231642 OpSys=z/OS 1.6.0 User=NBJ
File List Utilities System Window Swap Help
Command>

-File Search: CBL.JCL(*)
View Back Forward FDB Edit Help
Command>
  Dataset> CBL.JCL(*)
Search string> PGM=
-----Record-----
-Member- RecNo HitNo -----
CAESDREX 10 1 //RESTORE EXEC PGM=CAESDR,REGION=4M
CAESDRLK 8 1 //LINK EXEC PGM=IEWBLINK,PARM='REUS,AMODE=31'
CALIBADD 17 1 //INIT EXEC PGM=AFOLIBR,PARM='NRJS,NJTA'
CALIBADD 32 2 //ADD EXEC PGM=AFOLIBR,PARM='NRJS,NJTA'
CALIBADD 48 3 //LAMPNT EXEC PGM=IEBGENER
CALIBADD 57 4 //LAMPNT EXEC PGM=SELCOPY
CALSLC01 6 1 //SELCLAM EXEC PGM=SELCOPY
CAMEMADD 17 1 //ADD EXEC PGM=AFOLIBR,PARM='NRJS,NJTA'
CAMEMADD 49 2 //LAMPNT EXEC PGM=SELCOPY

-Define VSAM KSDS
Define Job AMS Help
>
Cluster Name> CBL.DEMO.KSDS Type> KSDS
Model> CBL.TEMP.KSDS Reuse> N
Catalog> Span> N
Speed> N
Avg rec len> 4089 Key length> 64 Writecheck> N
Max rec len> 4089 Key offset> 0 Erase> N
Buffer size>
Expiry>

Data name> CBL.D
Volumes> CBLM0
Space type> TRACK
CI Size> 4096

Index name> CBL.D
Volumes> CBLM0
Space type> TRACK
CI Size> 512

-REXX Calculator
Use this window to perform any calculation that can be
expressed in REXX syntax. Enter the expression below.

Note: All the normal arithmetic functions are available
together with conversion functions such as:
c2x Character to Hex c2d Character to Decimal
x2d Hex to Decimal d2x Decimal to Hex

Expression> d2x(4*6683 % 1024)
Value> 1A
  
```

Figure 9. Utility Windows.

On-line Help System

Get on-line help for the current window or for a specific topic using the **HELP <topic>** command.



Figure 10. Help Windows.

Section 02: New Facilities

Interactive CBLVCAT Reports

CBLVCAT Interactive is a major new feature that executes within the CBL interactive environment.

CBLVCAT Interactive allows the user to execute on-the-fly CBLVCAT control statements or a control statement source fileid, capture the resultant SYSPRINT/SYSLST report output and display it with coloured highlighting in a List type format display area window. The display area window contents may subsequently be edited using the CBL text editor and saved to disk.

In addition to the standard report output, raw values obtained by CBLVCAT for all available report fields may be displayed in a List window with column names equal to the CBLVCAT REPORT field names.

IDCAMS DEFINE deck output to SYSPUNCH, generated by CBLVCAT's LISTVCAT DEFINE parameter, is also captured and displayed in a CBL text edit window.

```
-CBLi for TSO 1.4B - Build=200611231319 OpSys=z/OS 1.6.0 User=NBJ
File List Utilities System Window Swap Help
Execute CBLVCAT
View Back Forward FDB Edit Raw Help
Command>
VCAT Command> listcat key=nbj.cblidemo.v0000.ksds tune growth=0 avlrecl=2452
> define
>
VCAT Program> V210
-----SysPrint-----
ICF CAT CBLMCT (3390) TYPE NRECS PCNT ---- ALLOC TRACKS ---- FRSP
----- TOTAL PRIME SEC CI C
NBJ.CBLIDEMO.V0000.KSDS
KSDS 500 24.9 84 21 7*4
VOL1=CBLM05
IX 13 39.4 1 1 1
VOL1=CBLM05
*** SEV 3-06 *** CA SPLITS TOO HIGH (8 PC OF INSERTS)
*** SEV 3-08 *** CI SPLITS TOO HIGH (30 PC OF INSERTS)
** SEV 2-19 ** SEC EXTENTS TOO HIGH
** SEV 2-25 ** INEFFICIENT DATA CISE
** SEV 2-27 ** TUNING FOR RECORDS/AVLRECL CHANGE REQUEST
* SEV 1-15 * 3 CYLS CAN BE RECOVERED WHEN TUNED
* SEV 1-22 * SPEED NOT DEFINED - RECOVERY IS DEFAULT
*** WARN 016 *** LARGE ALLOC CHANGE
CBL TUNED
-----
DATA (
CISZ (10240) - * NEW PHYREC SIZE=10240, CURRENT=40
CYLINDERS (2,1) - * OPTIMISED FOR DEVICE GEOMETRY
RECORDSIZE (2452,4089) - * DEFINED AVLRECL=1024
BUFFERSPACE (24576) - * 24K MINIMUM FOR DIRECT PROCESSING
SPEED ) * DON'T ALLOW DEFAULT
*** WARN 019 *** SKELETON DECK ONLY - ATTENTION REQUIRED
Line 8 of 90 Col 1 of 135 Views 1 select *
```

Figure 12. CBLVCAT Interactive File TUNE.

Execute CBLVCAT Window

The Execute CBLVCAT window is a List type window with additional input fields, **VCAT Command** and **VCAT Program**.

- The CBLVCAT command syntax to be executed is entered at the **VCAT Command** prompt. Alternatively, a fileid may be entered at the prompt prefixed by "<" (x'4C' - less than) to identify the input source file containing the CBLVCAT control statements.

Where the Execute CBLVCAT window is opened with no parameters, then, unless otherwise specified in the CBLiINI configuration file, CBLVCAT control syntax that would generate a list of all user catalogs referenced in the master catalog, is placed on the VCAT Command line ready for execution.

Note that placing the cursor on a user catalog entry in a LISTVCAT report and hitting <Enter> will generate a new CBLVCAT LISTVCAT report for the contents of the selected user catalog.

- The **VCAT Program** prompt identifies the program module/phase to execute. Unless otherwise specified in the CBLINI configuration file, the default program name is CBLV.

The remaining area is the CBLVCAT SYSPRINT/SYSLST output display area.

```

-CBLI for TSO 1.4B - Build=200701081227 OpSys=z/OS 1.6.0 User=NBH
File List Utilities System Window Swap Help
Execute CBLVCAT
View Back Forward FDB Edit Raw Help
Command>
VCAT Command> REPORT VCAT DSN 29 TYPE ALLOC3 TIMESTMP
> LISTVCAT KEY=CBL TYPE=C
VCAT Program> CBLV
-----SysPrint-----
1CBLVCAT REL 2.10z14 CBL - Bridgend UK (Internal Only) 2007/01/08 12:56
-----
REPORT VCAT DSN 29 TYPE ALLOC3 TIMESTMP
LISTVCAT KEY=CBL TYPE=C

ICF CAT CBLMCT (3390)      TYPE      ---- ALLOC TRACKS ----      TIMESTM
-----
CBL.BBDEM002.KSDS        KSDS          7          7          7      2005/11/04
                        IX              1          1          1
CBL.BU.CTL               KSDS          1          1          1      2004/09/14
                        IX              1          1          1
CBL.CAI.SMPCSI.CSI       KSDS         182         182        13      2006/08/02
                        IX              5          5          5
CBL.CAI.WIDEMSTR.LIBRCAT KSDS          1          1          1      2006/03/14
                        IX              1          1          1
CBL.CBLI.RACF.TEST.KSDS  KSDS(R)       1          1          1      2006/03/15
                        IX              1          1          1
CBL.CBLI.RACF.TEST.VSAM KSDS(R)       1          1          1      2006/03/15
Line 1 of 307 | Col 1 of 135 | Views 2 | select *

```

Figure 13. CBLVCAT Display Area.

Since the display area is a list of data having only a single column, namely **SysPrint**, standard list window command syntax may be entered from the command prompt to filter the output. e.g.

```
WHERE SYSPRINT << 'KSDS(R)'
```

The following prefix commands may also be entered against report lines:

Command	Description
B	Open the CBL text editor to edit the entry in read only mode.
C	Copy the entry.
D	Delete the entry. User will be prompted to verify the deletion.
E	Open the CBL text editor to edit the entry.
F	Open the File Search window to search the contents of the entry. Supported for MVS PDS/PDSE, CMS fileid, VSE LIBR sub-library and member entries only.
I	Open an IDCAMS Command window and issue an IDCAMS LISTCAT for the entry.
K	Delete (Kill) the entry without prompting for verification.

L	Open a Dataset List window for the entry.
M	Open a Library List window for the entry. Supported for MVS PDS/PDSE, VSE LIBR library and sub-library entries only.
Q	List dataset enqueues (major name SYSDSN) for the entry. Supported for MVS only.
R	Rename the entry.
T	Execute CBLVCAT TUNE against the entry.
V	Open another Execute CBLVCAT window and issue a LISTVCAT and/or LISTVTOC operation (as appropriate) for the entry.
?	Open the DASD Volume Statistics window for the volume in the list entry.

```

-CBLi for TSO 1.4B - Build=200701081227 OpSys=z/OS 1.6.0 User=NBJ
File List Utilities System Window Swap Help
Execute CBLVCAT
View Back Forward FDB Edit Raw Help
Command> WHERE SYSPRINT << 'KSDS(R)'
VCAT Command> REPORT VCAT DSN 29 TYPE ALLOC3 TIMESTMP
> LISTVCAT KEY=CBL TYPE=C
VCAT Program> CBLV
-----SysPrint-----
CBL.CBLI.RACF.TEST.KSDS KSDS(R) 1 1 1 2006/03/15
CBL.CBLI.RACF.TEST.VSAM.KSDS KSDS(R) 1 1 1 2006/03/15
CBL.DDIR KSDS(R) C=6 C=3 C=3 2002/11/15
CBL.EXT.CMPN.KSDS KSDS(R) 176 176 96 2006/06/23
CBL.EXT.CMPY.KSDS KSDS(R) 10 10 20 2006/07/05
CBL.EXT.CMP1.KSDS KSDS(R) C=10 C=10 C=5 2003/12/04
B CBL.EXT.STRN.KSDS KSDS(R) 12 12 24 2003/12/05
CBL.EXT.STR1.KSDS KSDS(R) 12 12 24 2003/12/05
CBL.EXT.STR2.KSDS KSDS(R) 12 12 24 2003/12/05
CBL.EXT.STR3.KSDS KSDS(R) 12 12 24 2003/12/05
I CBL.EXT.STR4.KSDS KSDS(R) 12 12 24 2003/12/05
CBL.FMNVSAM.TESTODO KSDS(R) 1 1 1 2006/05/17
CBL.KSDS.EXT.NOEXT.ADDR KSDS(R) 2 2 10 2004/02/19
CBL.KSDS.REUSE KSDS(R) 1 1 1 2004/04/20
CBL.KSDS.REUSE.JGE KSDS(R) 1 1 1 2005/09/28
CBL.KSDS.SQ10721.EMPTY KSDS(R) 1 1 1 2002/04/10
CBL.NFS.FHDBASE KSDS(R) 1 1 1 2006/10/20
CBL.NFS.FHDBASE2 KSDS(R) 1 1 1 2006/10/20
CBL.NFS.HANDLE.S01 KSDS(R) C=1 C=1 C=1 2002/04/10
CBL.NFS.HANDLE.S02 KSDS(R) C=1 C=1 C=1 2002/04/10
CBL.SELCOPY.DEMO.KSDS KSDS(R) 1 1 1 2005/11/03
CBL.SQ11198.DSN.KSDS KSDS(R) 1 1 1 2002/06/07
CBL.SSC.SQ10890.KSDS KSDS(R) 1 1 1 2002/04/10
CBL.SSC.SQ11553.KSDS KSDS(R) 1 1 1 2006/01/09
Line 1 of 24 Col 1 of 135 Views 3 select * where SYSPRINT << 'KSDS(R)'

```

Figure 14. CBLVCAT Display Area Filter and Prefix Commands.

CBLV RAW fields window

The CBLV Raw data list window may be opened by selecting **Raw** from the Execute CBLVCAT menu bar.

Whereas CBLVCAT arranges data in a printable report format, the CBLV Raw data list window, contains **all** report field data accumulated by CBLVCAT during the run, in list type format. The list field column headings are equivalent to the CBLVCAT REPORT field names.

The CBLV Raw data list window allows the user to perform more complex select, sort and filter operations on the field data than would be possible in the CBLVCAT formatted report.

Figure 15. illustrates use of select and filter on CBLV Raw LISTVCAT output in order to list only VSAM elements that have been defined with no secondary space allocation.


```

-CBLI for TSO 1.4B - Build=200701091035 OpSys=z/OS 1.6.0 User=NBJ
File List Utilities System Window Swap Help
-Execute CBLVCAT
View Back Forward FDB Edit Raw Help
Command>
VCAT Command> < CBL.VVC.CTL(ALLCATS)

-CBLV ListCat
View Back Forward FDB Edit Help
Command> SELECT ALLOCS,CATALOG,DSN WHERE ALLOCS<<' 0*' OR ALLOCS<<'C=0*'

--ALLOCS-- -----CATALOG-----
C=0* CATALOG.Z16.MASTER IXGLOGR.ATR.ADCDPL
C=0* CATALOG.Z16.MASTER IXGLOGR.ATR.ADCDPL
C=0* CATALOG.Z16.MASTER IXGLOGR.ATR.ADCDPL
C=0* CATALOG.Z16.MASTER IXGLOGR.ATR.ADCDPL
C=0* CATALOG.Z16.MASTER IXGLOGR.ATR.ADCDPL
C=0* CATALOG.Z16.MASTER SYS1.IODF00.CLUSTE
0* CATALOG.Z16.MASTER SYS1.IODF01.CLUSTE
0* CATALOG.Z16.MASTER SYS1.IODF99.CLUSTE
C=0* CATALOG.Z16.MASTER SYS1.IODF99.WORK.C
C=0* CATALOG.Z16.MASTER SYS1.MAN1
C=0* CATALOG.Z16.MASTER SYS1.MAN2
C=0* CATALOG.Z16.MASTER SYS1.MAN3
C=0* CATALOG.Z16.MASTER SYS1.STGINDEX
0* CATALOG.Z16.MASTER SYS1.STGINDEX
C=0* CATALOG.OS390.MASTER IXGLOGR.ATR.ADCDPL
C=0* CATALOG.OS390.MASTER IXGLOGR.ATR.ADCDPL
C=0* CATALOG.OS390.MASTER IXGLOGR.ATR.ADCDPL
C=0* CATALOG.OS390.MASTER IXGLOGR.ATR.ADCDPL
C=0* CATALOG.OS390.MASTER IXGLOGR.ATR.ADCDPL
C=0* CATALOG.OS390.MASTER IXGLOGR.WAS.ERROR.
C=0* CATALOG.OS390.MASTER SYS1.IODF00.CLUSTE
0* CATALOG.OS390.MASTER SYS1.IODF01.CLUSTE

Line 1 of 52 Col 1 of 100 Views 2 select ALLOCS,CATALOG,DSN where A

ADCD.SYS3.CBLI.HELP.HTML NONVSAM VOL1=Z6SYS1 3390
ADCD.SYS3.CBLI.SITE.CBLE NONVSAM VOL1=Z6SYS1 3390
ADCD.SYS3.CBLI.SITE.CBLE NONVSAM VOL1=Z6SYS1 3390
ADCD.SYS3.JGE.CBLI.CBLE NONVSAM VOL1=Z6SYS1 3390

Line 1 of 4925 Col 1 of 135 Views 1 select *

```

Figure 15. CBLV Raw List Window for LISTVCAT Operation.

```

-CBLI for TSO 1.4B - Build=200701081227 OpSys=z/OS 1.6.0 User=NBJ
File List Utilities System Window Swap Help
-Execute CBLVCAT
View Back Forward FDB Edit Raw Help
Command>
VCAT Command> listvtoc vol=cblm05 free

VCAT
---
1CB
--

-CBLV ListVTOC
View Back Forward FDB Edit Help
Command>

-----DSN----- -----CYL/HD----- CISIZE -START--
CBL.CAI.SAMPJCL 143/02 143/03 2147
145/02 145/03 2177
534/03 534/04 8013
VT CBL.CAI.SMPCSI.CSI.DATA 143/00 143/01 2145
-- 642/00 654/01 9630
VT CBL.CAI.SMPCSI.CSI.INDEX 529/00 529/04 7935
CBL.CAI.SMPSTS 528/06 528/14 7926
CBL.CAI.S910.CS910LLD 527/12 528/05 7917
SY CBL.CAI.VPOINT.HELP 523/03 527/11 7848
CB CBL.CAI.VPOINT.MESSAGE 522/10 523/02 7840
CBL.CBLEEDIT.COPO 394/00 398/14 5910
SY CBL.CBLIDUMP.D2007002.T1705239 2911/00 2919/14 43665
CB CBL.CBLI11.DIST.SYSEXEC 146/00 146/14 2190
CBL.CBLI110.ASM 708/00 727/14 10620
CB 179/00 183/14 2685
CB 160/00 164/14 2400
CB 728/00 733/14 10920
NB CBL.CBLI110.EXE 176/00 176/14 2640
CB CBL.CBLI110.LSX 171/00 175/14 2565
CB CBL.CBLI110.MAC 153/00 153/14 2295
CB CBL.CBLI110.MACLIST 388/00 393/14 5820
CB CBL.CBLI120.APF 641/00 641/14 9615
DJ CBL.CBLI120.ASM.BACKUP 1018/00 1018/14 15270
CB CBL.CBLI120.ASM.PDS

Line 45 of 894 Col 1 of 183 Views 1 select * sort DSN

LAC.JCL 004/02 004/06 62 5 EXT=1
LAC.JCL 004/07 004/11 67 5 EXT=2
DJH.LOAD 004/12 004/12 72 1 1 PDS *EXPD*
HWJ.HTTPD.CONF 004/13 004/13 73 1 1 PDS *EXPD*

Line 1 of 1284 Col 1 of 135 Views 2 select *

```

Figure 16. CBLV Raw List Window for LISTVTOC Operation.

SYSPUNCH IDCAMS DEFINE Deck

Where **DEFINE** is specified on a CBLVCAT LISTVCAT operation, IDCAMS DELETE/DEFINE control statements are generated for all selected files and written to SYSPUNCH.

CBLVCAT Interactive intercepts this output and presents it to the user in a new CBLe text editor window view.

```

-CBLi for TSO 1.4B - Build=200701081227 OpSys=z/OS 1.6.0 User=NBJ
File List Utilities System Window Swap Help
-Execute CBLVCAT
View Back Forward FDB Edit Raw Help
Command>
VCAT Command> listcat key=nbj.cblidemo.v0000.ksds tune growth=0 avlrecl=2452
> define

VC
CBLe - CBL.CMX(TUNED) 72 F SEQ Size=101 Alt=0,0;0
File Edit Actions Options Window Help ? Sv ToF BoF wS wR Pfx < > Scroll> Csr
Command>
000001 //CBLDEF01 JOB
000002 //JOB CAT DD DSN=USERCAT.CBLCAT,DISP=SHR
000003 //STEP2 EXEC PGM=IDCAMS
000004 //SYSPRINT DD SYSOUT=*
000005 //SYSIN DD *
000006 *** WARN 016 *** LARGE ALLOC CHANGE
000007
000008 /* DEL NBJ.CBLIDEMO.V0000.KSDS -
000009 /* CLUSTER -
000010 /* PURGE -
000011 /* CATALOG (USERCAT.CBLCAT)
000012
000013
000014 DEF CLUSTER (NAME (NBJ.CBLIDEMO.V0000.KSDS)
000015 INDEXED /* KSD
000016 BUFFERSPACE ( 24576)
000017 /* BUFFERSPACE ( 12288)
000018 /* RECORDSIZE ( 2452, 4089)
000019 /* RECORDSIZE ( 1024, 4089)
000020 SPEED
000021 /* RECOVERY
000022 STORAGECLASS (CBLDFLT )
000023 MANAGEMENTCLASS(CBLDFLT )
000024 NOWRITECHECK
000025 NONSPANNED
000026 FREESPACE ( 0, 0)
000027 KEYS ( 4, 0)
000028 NOIMBED
000029 NOREPLICATE
Line=1 Col=1 Alt=0,0;0 Size=101 Recl=72 Fmt=F Files=2 Views
Line 1 of 90 Col 1 of 135 Views 1 select *

```

Figure 17. CBLVCAT Generated IDCAMS DEFINE deck.

Non-standard 3270 Terminal Displays

The CBL Interactive Environment and CBLVCAT Interactive take full advantage of large 3270 terminal sizes and colour display that may be achieved using IBM-Dynamic TN3270E VTAM logmodes.

CBL recommends that system administrators configure the TN3270 servers and 3270 emulation software to allow users to start emulated terminals with non-standard 3270 terminal sizes.

See the CBLi 3270 Emulators page of the CBL web site at:
<http://www.cbl.com/cbli3270.html>

Also, IBM's Techdocs library entry, "Creating dynamic 3270 screen size definitions for increased productivity" at:
<http://www-03.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/TD102151>

```

--CBLI for ISO 1.48 - Build=200701091035 OpSys=z/OS 1.6.0 User=MBJ
File List Utilities System Window Snap Help
Command>

--Execute CBLVCAT
View Back Forward F06 Edit Nam Help
Command>
VCAT Command> lc ref=USERCAT.CBLCAT type=c
~
VCAT Program> cblv
-----Sysprint-----
IOF CAT CBLNCT (3330) TYPE MRECS PCMT ---- ALLOC TRACKS ----
TOTAL PRIME SEC FRSP LMAX ML/RMP CFSIZE BUFSP ENOPS TIMESTMP
CI CA ---- /BLK/IMB ---- /IXL ----
USERCAT.CBLCAT KSDS 186*** ALL** 0=1 0=1 0=1 32400V 45.9 20480 SPANNED 2002/03/26
IN 14 2.1 1 1 1 505 512 *** 019 CI SPLITSP**
ABS.DDIR KSDS (R) 8341 57.3 0=6 0=3 0=3 30720V128.0 18432 4096** 3238 2002/11/15 15.37.23
VOL1=08339M1 *** 151 CI SPLITSP**
IN 6
APE110.DSMDB0C.APE110DB.APE110TS.I0001.A001 LRS (R) 12 *
CBL.BBDEM002.KSDS KSDS 11
IN 1
CBL.BU.OTL KSDS 25
-----DSN----- --TYPE-- --MRECS-- --PCMT-- --ALLOCT- ALLOCU -ALLOCF- --ALLOCS--
ABS.DDIR IN 6 50.0 1 1 1
KSDS(R) 8341 57.3 0=6 0=3 0=3
APE110.DSMDB0C.APE110DB.APE110TS.I0001.A001 LRS (R) 12 *** ALL** 1 1 1
CBL.BBDEM002.KSDS IN 1 4.8 1 1 1
KSDS 11 0.4 7 1 1 1
10
~
--Execute CBLVCAT
View Back Forward F06 Edit Nam Help
Command>
VCAT Command> lc ref=CBL.GAI.SMPOSI.OSI key=CBL.GAI.SMPOSI.OSI tune define
~
VCAT Program> cblv
-----Sysprint-----
1CBLVCAT REL 2.10z14 CBL - Bridgend UK (Internal Only)

lc ref=CBL.GAI.SMPOSI.OSI key=CBL.GAI.SMPOSI.OSI tune define

IOF CAT CBLNCT (3330) TYPE MRECS PCMT ---- ALLOC TRACKS ----
TOTAL PRIME SEC
CBL.GAI.SMPOSI.OSI KSDS 34368 17.2 182 182 13
VOL1=CBLN05
IN 5 8.4 5 5 5
VOL1=CBLN05

*** SEV 2-04 *** BUFSP TOO SMALL FOR EFFICIENCY
*** SEV 2-05 *** CA SPLITS EXIST
*** SEV 2-03 *** CI SPLITS TOO HIGH (1 PG OF INSERTS)
Line 1 of 03 Col 1 of 135 /fns=1 select *

--CBL - CBL.GAI.YUHED0 Y2 F SEQ Size=55 Alt=0.000
File Edit Actions Options Window Help ? 30 ToF BoF MS MR Fx < > Scroll> Csr
Command>
ENT1351 CAPS Mode changed from OFF to ON as the file has upper case data.
000001 //CBLDEF01 JOB
000002 //JOB CAT DD DSN=USERCAT.CBLCAT.DISP=SHR
000003 //STEP2 EXEC PGM=IDCAMS
000004 //SYSPRINT DD SYSOUT=*
000005 //SYSIN DD *
000006 *** WARM 016 *** LARGE ALLOC CHANGE
000007
000008 ** DEL CBL.GAI.SMPOSI.OSI - **
000009 ** CLUSTER - **
000010 ** PURGE - **
000011 ** CATALOG (USERCAT.CBLCAT) **
000012
000013
000014 DEF CLUSTER (NAME (CBL.GAI.SMPOSI.OSI)
000015 INDEXED ** KSDS ** -
000016 BUFFERSPACE ( 40960)
000017 ** BUFFERSPACE ( 12288) ** -
000018 ** RECORDSIZE ( 44, 143) -
000019 ** RECORDSIZE ( 24, 143) ** -
Line=1 Col=1 Alt=0.000 Size=55 Recs=72 Fns=1 Files=4 Vtense=4

```

Figure 18. CBLVCAT Interactive 62x160.

Section 03: Other Changes

CBLVCAT 2.10 Zaps applied

Zap ID	Op. Sys.	Query Ref.	Description
v210z01	All	(VQ3435 - 2004/04/26)	0C4 in CBLV for LISTCAT volume summary. Occurs when a volume summary print experiences a page break. Caused by summary headings being in 31 bit storage but not moved below the line before printing.
v210z02	CMS	(VQ3437 - 2004/04/26)	0C4 at CBLV+1D766 running under CMS with DOS ON when IJSYSLS is not the first DLBL supplied.
v210z03	CMS	(VQ3438 - 2004/04/26)	DMSDOS095E Invalid address 00000010 when running CBLV from a CMS module with DOS ON. This zap disables the ISC (In Storage Catalog) facility.
v210z04	CMS	(VQ3439 - 2004/04/27)	"DMSFCH623S PHASE cannot be loaded at location xxxxxxxx--this area is available for system use only" when running interactively under CBLi with DOS ON.
v210z05	CMS	(VQ3440 - 2004/04/27)	LISTVTOC SYS=n without 'SET DOS ON' in effect causes a program check. With this zap applied ERROR 002 SYSnnn UA or IGN will occur.
v210z06	All	(VQ3441 - 2004/04/29)	ERROR 004 VTOC OPEN ERROR issued when ERRORs 001-007 or 037 should have been.
v210z07	MVS	(VQ3443 - 2004/07/29)	Possible Addressing/Protection/Operation Exception having processed a catalog entry which has an ALIAS length 1 character.
v210z08	All	(VQ3447 - 2004/09/02)	LISTVCAT gives 0C9 abend at CBLV+FAF0 for ESDS/KSDS where estimated AVLRECL value > 2GB. This can occur when the catalog HIUSERBA value is very large (>2GB) and NRECS value is small. Note that, where control interval processing is used to access a file, the catalog statistics value for NRECS is not maintained by VSAM. In this case, the NRECS value does not reflect the actual number of records in the data set. With this zap applied WARN 022 - CONFLICTING CATALOG STATISTICS is given instead.
v210z09	All	(VQ3450 - 2005/04/13)	The LISTVCAT volume summary block may contain a VOLUME entry of "" (X'5C' asterisk) when the catalog contains an SMS managed data set with a candidate volume not yet determined by SMS. The candidate volume may be any of the volumes defined in the associated SMS Storage Group. Same problem in previous release.
v210z10	VSE	(VQ3451 - 2005/04/13)	When CBLVCAT is called from REXX, the REXX procedure was terminated with error ARX0980E. For VSE/SP2 or later systems, capable of receiving SELCOPY's return code at EOJ, return to the operating system was via the \$IJBCCN transient phase, which eventually issues an SVC 14, which in turn has EOJ implications for CBLVCAT called from REXX. Although callers of CBLVCAT from REXX can overcome this problem by adding an entry in table ARXEOJTB for CBLVCAT, Zap 10 makes this unnecessary by forcing CBLVCAT to do a standard return which all modern VSE releases now support as for MVS.
v210z11	All	(VQ3454 - 2005/04/13)	CBLVCAT's expiry warning message, issued 4 weeks prior to it expiry date, awaits an operator REPLY.
v210z12	MVS	(VQ3455 - 2005/08/04)	Possible 0C4 abend at CBLV+10B44 on a LISTVCAT operation when processing GDG entries having multiple candidate SMS managed volumes. Same problem in previous release.
v210z13	All	(VQ3453 - 2005/08/19)	For data sets on 3390 DASD, the sum of the LOAD and FREE percentage values, reported in the LISTVCAT TUNE FILE CAPACITIES block, may be >100 Similarly, on 3380 and 9345 devices, these values may be lower than expected. The percentage values reflect the number of primary allocated records that would be achieved as a result of applying the recommended DEFINE parameters, against the number of records achievable for the same primary allocation using the optimum CISIZE for the device (18K for 3390, 22K for 3380/9345). Number of records are based on the determined (or user supplied) average record length of records that already exist in the data set. Zap 13 corrects the space available to VSAM on a 3390 track using a CISIZE of 18K and on a 3380/9345 track using a CISIZE of 22K. Same problem in previous release.
v210z14	All	(VQ3456 - 2005/08/23)	For a LISTVCAT TUNE operation, possible erroneous percentage FREESPACE CI/CA recommendation that yields no free CI/CA when tuning is for data sets on MVS systems. Note that, for a %FREE CI/CA calculation, MVS VSAM will round down to the nearest whole CI whereas VSE VSAM will round up to the nearest whole CI. Same problem in previous release.

Zap ID	Op. Sys.	Query Ref.	Description
v210z15	MVS	(VQ3461 - 2005/09/13)	LISTVCAT TUNE estimated AVLRECL may be wildly inaccurate for SMS managed VSAM datasets in releases of z/OS up to 1.6. This is due to an error in the z/OS component DFSMS/MVS ICF Catalog and CVOL whereby the wrong data set FREEBYTES value is stored in the catalog. In some cases, the FREEBYTES value may even be greater than the HIALLRBA value. IBM APARs OA03228 and OA10846 address this error for different releases of z/OS. Having applied this service, reorg the data set to correct the catalog statistics, before attempting to tune it. Same problem in previous release.
v210z16	All	(VQ3455 - 2005/10/19)	When run interactively under CBLi, use of the REPORT VCAT field VOLn results in unpredictable colouring for that data displayed in that field.
v210z17	All	(VQ3456 - 2005/10/19)	When run interactively under CBLi, use of REPORT VCAT/VTOC (for very few items) that results in a narrow page width can cause colouring for the site name to overlap into the first character of the timestamp.
v210z18	All	(VQ3469 - 2006/06/30)	Invalid EXTENT information should not be included in TOTAL FREE TRACKS for LISTVTOC FREETAB.

CBLVCAT 2.11 Zaps applied

Zap ID	Op. Sys.	Query Ref.	Description
v211z01	All	(VQ3471 - 2006/12/08)	SELCOPY READ VTOC function fails with ERROR 530.
v211z02	VSE	(VQ3472 - 2007/01/04)	LISTVTOC CYL/TRACKS total incorrect.